

SAMPLE WASH STATION ASSEMBLY

ABSTRACT OF THE DISCLOSURE

A wash station assembly and method for washing selected samples in a sample containing assembly. The wash station assembly includes a wash station having a frame and a fluid dispensing assembly connected to the frame. The fluid dispensing assembly has a selector valve that is connectable to a plurality of fluid lines and is adjustable to allow only one of the fluids to pass through the selector valve at a time. An array of syringes is coupled to the selector valve and positioned to receive the fluid passing through the selector valve. Each syringe includes a check valve that prevents backflow of fluid or air into the syringe through the pipetting needles. A distribution manifold is connected to the selector valve and receives the fluid passing through the selector valve. The manifold has a plurality of distribution channels coupled to the syringes, to direct the fluid into the syringes. Each distribution channel has a manifold valve therein that prevents backflow of fluid into the manifold from the syringes. An array of pipetting needles is connected to the syringes and is positioned to direct the fluid into the sample containing assembly for washing the samples. The pipetting needles have a radially directed opening in the distal end to direct the fluid radially away from the needle during the dispensing process. A waste management system is connected to the wash station to automatically separate halogenated waste fluids from non-halogenated waste fluids.